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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/232,049	01/15/1999	MASAYUKI SATO	FUJA-15.799	2308
7	590 03/29/2002			
HHELFGOTT & KARAS 60TH FLOOR EMPIRE STATE BUILDING NEW YORK, NY 101186098			EXAMINER	
			HUNT, ERIC T	
NEW TORK,	11 101160096		ART UNIT	PAPER NUMBER
		2152		
			DATE MAILED: 03/29/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	09/232,049	SATO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Eric T. Hunt	2152				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 15.5	lanuary 1999 .					
2a) ☐ This action is FINAL . 2b) ☑ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) is/are pending in the application						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>01/15/1999</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119/a	a)-(d) or (f)				
a) ☐ All b) ⊠ Some * c) ☐ None of:	i priority arrasi so silvino, si i rota	-, (3) 5. (7).				
1.⊠ Certified copies of the priority document	s have been received					
2.⊠ Certified copies of the priority document		ion No. <i>09/232 049</i> .				
Copies of the certified copies of the prior application from the International Bu See the attached detailed Office action for a list	rity documents have been receive reau (PCT Rule 17.2(a)).	ed in this National Stage				
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.

6) Other:

4) Interview Summary (PTO-413) Paper No(s).

5) Notice of Informal Patent Application (PTO-152)

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a) because they fail to show a continuation of the drawings from one figure to another, i.e. (1A&1B, 4A&4B, 5A&5B, 6A&6B, 7A&7B, 8A&8B, 9A&9B) as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d).

Specification

2. The disclosure is objected to because of the following informalities: The description of the drawings is not consistent with labeling found within the drawings.

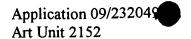
Page 17 line 11 references Fig. 3 disclosing that command (verb) ENT corresponds to M-GET of CMIP operation. However, Fig. 3 shows command (verb) ENT corresponding to M-CREATE. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 3. Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite in that it fails to point out what is included or excluded by the claim language. Claims 1-5 disclose "an/the Open Systems Interconnection (OSI) model" without limitation. These claims are omnibus type claims.
- 1. With reference to Claim 5 lines 15, 18, 21, 23, and 24 there is insufficient antecedent basis for the limitation "fourth, fifth, and sixth means". Claim 5 is an independent claim; therefore there are no prior means to consider.



Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- 4. Claim 4 is rejected under 35 U.S.C. 102(a) as anticipated by Hisayoshi (JPO 6-303288).
- 1. Regarding claim 4, Hisayoshi teaches a system of racing control in systems management by CMIP operations defined by an OSI model, provided with, an execution status table (operation registration table) storing information of operations now being executed (page 3 of 4, [0032]), and a rivalry table (racing control table) (page 3 of 4, [0032]) with information of whether or not operations may be executed. The rivalry table is in a form that requires cross-referencing (page 3 of 4, [0033-0034]; this suggests the table is in the form of a matrix, of operations under investigation (newly requested) and the CMIP operations in the execution status table (now being executed) (Page 3 of 4, [0033-0034]). Matrix is taken to mean an array of commands or input values and outputs. Hisayoshi further discloses an information analysis means (first means) for extracting commands from command groups (operations) from the execution status table, a means (second means) for investigating (determining) whether or not the MOI of operations being executed and operations being requested are the same, and a command delivery means (third means) for determining whether the requested operations can be executed by referring to the rivalry table (page 3 of 4, [0033-0034]). All of Hisayoshi's

elements are equivalent to those claimed. Thus, it is clear that Hisayoshi reads on the claimed invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1,8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hisayoshi (JPO No. 6-303288) and Moeller (U.S. Pat. No. 5,519,867).
- 1. Regarding Claim 1, Hisayoshi teaches a method of racing control in system management including the steps of determining, regarding CMIP commands (operations), whether or not managed object instances (MOI) of operations are the same. Hisayoshi performs racing control while treating commands as command groups. Hisayoshi teaches a rivalry table (racing control table) to determine whether it is possible to execute newly requested operations. Hisayoshi does not teach the use of a managed object instances in units of the smallest instance (i.e. units of processing) to carry out racing decisions. In related art object instances are implemented in units of varying degree. Moeller teaches the object-oriented access to services provided by an operating system. Moeller defines an object is an instance of some class. This art teaches that a subclass is from another class and that inheritance is the mechanism by which subclasses are created for greater levels of specialization (column 2, lines 30-33). Moeller defines classes that access services of an operating system including, thread classes, synchronization classes, interprocess communication classes and virtual memory classes (column 3, lines 59-67 and

column 4, lines 1-22). Thus, According to Moeller, subclasses can be created from these parent classes resulting in more specialized and subsequently smaller units of instances of each class. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the managed objects taught by Hisayoshi in view of Moeller and define objects as units of even the smallest instance, in order to optimize race control for an increased number of instances.

2. Regarding claim 8, Hisayoshi teaches a correspondence table with command ID and corresponding MOI (page 3 of 4, [0034]). Hisayoshi also teaches a containment tree that shows the hierarchy of actual resource matched with MOI (page 1 of 4, [0013]). The correlation found between the correspondence table (command ID) and containment tree (MOI of resources) anticipate a racing control unit structured based on the identity of expressions (instances) of resources to be controlled. Hisayoshi bases an equivalent system set forth in claim 5 on commands and command groups, whereby the command IDs stored in the correspondence table were the IDs of commands and command groups. Hisayoshi's commands and command groups correlate with groups of MOI of resources to be controlled from the containment tree. Therefore, the combination of Hisayoshi's teachings regarding this claim and Moeller's teachings of more specialized, smaller instances of objects renders obvious a racing unit structured based on the identity or the resemblance of categories of resources to be controlled. Hisayoshi further teaches referencing a rivalry table Hisayoshi's rivalry table is based on commands (classification of control) and command groups (groups of classification of control). This element of he claim is anticipated because the applicant shows the classification of control as groupings of commands or verbs in figures 5A & 5B. Therefore, it would have been obvious to one

of ordinary skill in the art at the time the invention was made to modify Hisayoshi in view of Moeller to structure a racing control unit to determine whether or not newly requested operations may be executed, based on the identity of expressions of resources to be controlled. It is obvious because by reduction of overhead gained by solely referencing the identity and not all elements of an instance would improve efficiency.

- 6. Claims 2-3, 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hisayoshi (JPO No. 6-303288) and Moeller (U.S. Pat. No. 5,519,867) in view of what was well known in the art.
- 1. Regarding claims 2-3, Hisayoshi also teaches a containment tree of MOI (external expressions) that establishes correspondence between MOI of operations and their actual resources [0013]. Hisayoshi invention discloses management comprising CMIP commands and environmental application section operations both OSI and non-OSI. [0001]. This is taken to mean that Hisayoshi addresses newly requested operations under CMIP and operations inherent to the system. Hisayoshi does not teach the use of external expressions in units of smallest instance (i.e. units of processing). The applicant defines external expression to be equivalent with object instance (page 18, line 36). Hisayoshi does not teach determining the possibility of execution of operation on a common racing table formed based on combinations of classification of control of operations inherent to the system. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hisayoshi to base the common racing control table on the classification of control of operation inherent to the system. The examiner takes OFFICIAL NOTICE that as a system encounters inputs with multiple classifications of operations, distinct decision or truth tables, consisting of

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narrowly defined associative sets of variables, may be referenced in order improve system efficiency and determine an appropriate output. Thus, it would have been obvious to one having ordinary skill that the combination of Hisayoshi and Moeller implemented in accordance with standard programming practices would result in claims 2-3 since decision and truth tables are routinely utilized to make efficient output determinations.

- 2. Regarding Claim 5, Hisayoshi discloses an execution status table as noted above. Hisayoshi also teaches a rivalry table and correspondence table (common racing control table) establishing correspondence between CMIP commands and OSI and non-OSI operations (page 3 of 4, [0031]). As noted above Hisayoshi teaches the means of extracting operations now being executed (first means), determining if the operations now being executed and newly requested are the same (second means), and a contention control/command delivery means for determining whether the newly requested operation may be executed by referring a rivalry table (common racing control table) (third means) (page 3 of 4, [0043-0044]). However Hisayoshi is silent as to the teachings of MOI (external expression) of the smallest instance corresponding to the MOI of newly requested operations. These additional elements would be further obvious from the teachings on Hisayoshi's correspondence and rivalry table and Moeller's teachings of more specialized, smaller instances of objects. Thus, the combination of Hisayoshi and Moeller would have been obvious to one of ordinary skill in the art as noted above regarding claims 2-3.
 - 3. Regarding claims 6-7, as noted above Hisayoshi teaches a

rivalry table and correspondence table (common racing control table) that establishes correspondence of groups of CMIP operations and OSI and non-OSI operations. Hisayoshi does not teach storing information of whether newly requested operations may be executed in the form of combinations of classification of operations now being executed and classifications of newly requested operations. However, in the OFFICIAL NOTICE taken regarding claims 2-3, renders obvious the use of classifications of operations as now being executed, newly requested, or classification of control of newly requested operations as variables in such a table. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Hisayoshi to form a rivalry and correspondence table (common racing control table) that stores information of whether newly requested operations may be executed in the form of combinations of the classification of operation now being executed and classifications of newly requested operations. Because discriminating and referencing only the pertinent associative sets of input variables in a table further increases the efficiency of making output determinations.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Pat. No.5,469,575

U.S. Pat. No. 5,455,914

U.S. Pat. No. 5,826,081

U.S. Pat. No. 5,715,472

8. Any inquiry concerning this communication or earlier communications from

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the Examiner should be directed to Eric T. Hunt whose telephone number is 703-305-4868. The examiner can normally be reached on 7am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Rinehart can be reached on 703-305-4815. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-7239 for regular communications and 703-746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

E.H. March 25, 2002

MARK H. RINEHART SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100